UUU UUU	UUU UUU			PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	\$	YYY YYY
UUU UUU	UUU UUU	EEE		PPF PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	SSSSSSSSSSS SSS	YYY YYY
UUU	UUU	EEE	111	PPP PPP		YYY YYY
UUU	ŬŬŬ	ĔĔĔ	ήήή	PPP PPP		YYY YYY
ŬŬŬ	ŬŬŬ	ĔĔĔ	İİİ	PPP PPP		'''YYY YYY'''
ŬŬŬ	ŨŨŨ	ĔĔĔ	ŤŤŤ	PPP PPP		ÝÝÝ ÝÝÝ
UUU	UUU	ÉEÉ	TTT	PPP PPP		YYY YYY
UUU	UUU	EEEEEEEEEE	TTT	PPPPPPPPPPP	SSSSSSSS	YYY
UUU	UUU	EEEEEEEEEE	TTT	PPPPPPPPPPP	SSSSSSSS	YYY
UUU	UUU	EEEEEEEEEEE	ŢŢŢ	PPPPPPPPPPP	SSSSSSSS	YYY
UUU	UUU	EEE	ŢŢŢ	PPP	SSS	YYY
UUU	UUU	EEE	TTT	PPP	SSS	YYY
UUU	UUU	EEE	TTT	PPP	SSS	YYY
UUU	UUU	EEE	TTT	PPP	SSS	YYY
UUU	UUU	EEE	TTT	PPP	SSS	YYY
UUU	UUU	EEE	TTT	PPP	SSS	YYY
	JUUUUUUUU	EEEEEEEEEEEEE	TTT	PPP	SSSSSSSSSS	YYY
	UUUUUUUU	EEEEEEEEEEEEE	TTT	PPP	SSSSSSSSSS	YYY
UUUUUUU	UUUUUUUU	EEEEEEEEEEEEE	TTT	PPP	SSSSSSSSSS	YYY

\$	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		\$	\$	\$	44 44 44 44 44 44 44 44 44 44 44 44 44 4	22222222222 22 22 22 22 22 22 22	••••
		\$						

SATSSS42 Table of	contents	SATS SYSTEM SERVICE TESTS SFORCEX (SUCC 16-SEP-1984 00:53:49 VAX/VMS Macro V04-00
(1) (1) (1) (1) (1) (1)	55 111 148 247 335 428 569	DECLARATIONS CONDITION TABLES TM SETUP, TM (LEANUP CONDITION SUBROUTINES - SETUP AND CLEANUP FORM CONDS VERIFY VFY_CLEANUP

SAT VO4

Page 0

.TITLE SATSSS42 SATS SYSTEM SERVICE TESTS \$FORCEX (SUCC S.C.)
.IDENT 'V04-000'

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FACILITY: SYSTST (SATS SYSTEM SERVICE TESTS)

ABSTRACT:

11 12 13

41 42 43

THIS MODULE CONTAINS SUBROUTINES WHICH, WHEN LINKED WITH SUCCOMMON.OBJ, FORM TEST MODULE SATSSS42 TO TEST SUCCESSFUL OPERATION OF THE \$FORCEX SYSTEM SERVICE. THE SERVICE IS INVOKED UNDER VARIOUS INPUT CONDITIONS WITH VARYING INPUT PARAMETERS. ONLY SUCCESSFUL STATUS CODES ARE EXPECTED IN THIS TEST MODULE. CORRECT OPERATION OF THE SERVICE FOR EACH OF ITS ISSUANCES IS VERIFIED BY CHECKING FOR AN SS\$ NORMAL STATUS CODE, EXPECTED RE IN ARGUMENTS AND EXPECTED FUNCTIONALITY PERFORMED.

ENVIRONMENT: USER MODE IMAGE: NEEDS CMKRNL PRIVILEGE, DYNAMICALLY ACQUIRES OTHER PRIVILEGES, AS NEEDED.

AUTHOR: THOMAS L. CAFARELLA, CREATION DATE: MAR, 1978

MODIFIED BY:

V03-001 LDJ0001 Larry D. Jones, 23-Jun-1983 Removed the quota list to force the use of the default sysboot quota values.

SAT VO4

2 (1)

CON CON CON CON CON CON CON CON CON CON CON CON CON CON CON CON CON

SAT

Sym

555

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555

555

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555

555

555

555

\$\$1

\$\$1

BYT

CFL

CHM

COM

CON

CRE

CON

0110

109 EXP_STATUS:

00000110

00000120

.BLKL

.BLKL

PID OF CREATED PROCESS

EXPECTED STATUS CODE FROM CREATED PROC

PSE SAB ROD RWD

SAT

SAT

Sym

SYS

SYS

VER VFY WOR WRI ZER

Pha ---Ini Com Pas Sym Pas Sym Pse

(ra Ass

```
SATS SYSTEM SERVICE TESTS $FORCE$ (SUCC 16-SEP-1984 00:53:49 VAX/VMS Macro V04-00 CONDITION TABLES 5-SEP-1984 04:31:22 [UETPSY.SRC]SATSSS42.MAR;1
             0120
0120
0120
0120
0120
0120
0120
016B
                                         .SBTTL CONDITION TABLES
                       112
                                         **** CONDITION TABLES FOR FORCEX SYSTEM SERVICE *****
                       114
                                                   1, NOTARG, <PID ADDRESS>, -
<NOT SPECIFIED>, -
<SPECIFIED, NON-ZERO>, -
                                         COND
                       116
                                                       <SPECIFIED, ZERO>,-
                        119
                       120
121
123
124
125
127
128
129
130
                                                          .ADDRESS
00000000
             016F
0173
0177
                                                                          CREATED_PID
ZEROPID
000001181
000001101
                                                          .ADDRESS
                                                    2, NOTARG, <PROCESS NAME ADDRESS>, - <SPECIFIED>, -
              0177
                                         COND
              0177
              0177
                                                       <NOT SPECIFIED> .-
              0177
000000591
              01AD
                                                                          CREATED_PRN
                                                          .ADDRESS
00000000
              01B1
                                                          .ADDRESS
              01B5
              01B5
                        131
                                         COND
                                                    3,NGTARG, <CREATED PROCESS TYPE>,-
              01B5
                                                       <SUBPROCESS>,-
                       133
134
135
136
137
              01B5
                                                       <DETACHED, DIFFERENT GROUP>,-
                                                       <DETACHED, SAME GROUP, SAME MEMBER>,-
<DETACHED, SAME GROUP, DIFFERENT MEMBER>,-
              0185
              01B5
              0185
             0249
024D
0251
0255
                                                                                          ; PSEUDO-UIC
00000000
                                                          .LONG
00000251
                       138
                                                          .BLKL
                                                                                          UIC
00000255
                       139
                                                          .BLKL
                                                                                          : UIC
00000259
                       140
                                                                                            UIC
                                                          .BLKL
             0259
0259
                       141
                       142
                                         COND
                                                    4.NULL
              025A
              025A
                       144
                                         COND
                                                    5.NULL
              025B
                       145
```

.PSECT SATSSS42,RD,WRT,EXE

0000000

146

SAT

VAX

Mac

-\$2 -\$2 -\$2 TOT

934

The

MAC

(1)

Page

```
SATS SYSTEM SERVICE TESTS $FORCEX (SUCC 16-SEP-1984 00:53:49 VAX/VMS Macro V04-00 TM_SETUP, TM_CLEANUP 5-SEP-1984 04:31:22 [UETPSY.SRC]SATSSS42.MAR;1
                                     0000
                                                            .SBTTL TM_SETUP, TM_CLEANUP
                                                  ;++
                                              149
                                     0000
                                              150
                                                   : FUNCTIONAL DESCRIPTION:
                                     0000
                                              151
                                                     TM SETUP AND TM CLEANUP ARE CALLED TO PERFORM REQUIRED HOUSEKEEPING AT THE BEGINNING AND END, RESPECTIVELY, OF
                                             152
153
                                     0000
                                     0000
                                     0000
                                              154
                                                     TEST MODULE EXECUTION.
                                              155
                                     0000
                                     0000
                                              156
                                                     CALLING SEQUENCE:
                                              157
                                     0000
                                     0000
                                              158
                                                            BSBW TM_SETUP
                                                                               BSBW TM_CLEANUP
                                     0000
                                              159
                                     ŏŏŏŏ
                                              160
                                                     INPUT PARAMETERS:
                                     ŎŎŎŎ
                                              161
                                     0000
                                              162
                                                            NONE
                                     0000
                                              163
                                     0000
                                                     IMPLICIT INPUTS:
                                              164
                                     0000
                                              165
                                     0000
                                              166
                                                            NONE
                                     0000
                                              167
                                     0000
                                                     OUTPUT PARAMETERS:
                                              168
                                     0000
                                              169
                                     0000
                                              170
                                                            NONE
                                     0000
                                              171
                                     0000
                                              172
                                                     IMPLICIT OUTPUTS:
                                              173
                                     0000
                                     0000
                                              174
                                                            TM_SETUP: COND TABLE INDEX REGISTERS (R2,3,4,5,6) CLEARED;
                                              175
                                     0000
                                                                         ALL PRIVILEGES ACQUIRED.
                                     0000
                                              176
                                     0000
                                              177
                                                     COMPLETION CODES:
                                     0000
                                              178
                                     0000
                                              179
                                                            EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
                                     0000
                                     0000
                                              181
                                                     SIDE EFFECTS:
                                     0000
                                     0000
                                              183
                                                            SS CHECK AND ERR EXIT MACROS CAUSE PREMATURE EXIT
                                     0000
                                              184
                                                            (VIA RSB) IF ERRÖR ENCOUNTERED.
                                     0000
                                              185
                                     0000
                                              186
                                     0000
                                              187
                                     0000
                                     0000
                                     0000
                                              190
                                                  TM_SETUP::
                                     0000
                                              191
                                                            CLRL
                                                                                                    INITIALIZE
                                     0002
                                              192
                                 D4
                                                            CLRL
                                                                                                    .. CONDITION
                                              193
                                 D4
                                     0004
                                                                      R4
                                                                                                    .... TABLE
                                                            CLRL
                                                                                                    ..... INDEX
                                 D4
                                     0006
                                              194
                                                            CLRL
                                                                      R5
                                 D4
30
                                     0008
                                              195
                                                            CLRL
                                                                                                               REGISTERS
                                                                                                    PRINT TEST MODULE BEGIN MSG
                                     000A
                                              196
                                                                     MOD_MSG_PRINT
                                                            BSBW
                                                                     TEST MOD SUCC. TMD ADDR : ASSUME END MSG WILL SHOW SUCCESS #SUCCESS. #0. #3, MOD MSG CODE : ADJUST STATUS CODE FOR SUCCESS
                                                                                                    ASSUME END MSG WILL SHOW SUCCESS
0000000'EF
                00000000'EF
                                     000D
                                              197
                                 DE
                                                            MOVAL
                00000000 8F
                                 F O
                                     0018
                                              198
    03
          00
                                                            INSV
                00000000'EF
                                      0020
                                      0025
                                              199
                                                                                                    KERNEL MODE TO ACCESS PHD
                                                            MODE
                                                                      TO,5$,KRNL
                                                                     a#CTL$GL_PHD,R9
                00000000'9F
                                     0048
                                              200
                                                            MOVL
                                                                                                    GET PROCESS HEADER ADDRESS
                                 D0
                                                                     PHDSQ_PRIVMSK(R9), PRIVMASK; GET PRIV MASK ADDRESS
                                              201
          00000000 EF
                                 DE
                                     004F
                                                            MOVAL
                          69
                                              202
203
                                      0056
                                                            MODE
                                                                     FROM, 5$; BACK TO USER MODE
                                      0057
                                                            PRIV
                                                                      ADD.ALL
                                                                                                  : GET ALL PRIVILEGES
```

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SATS SYSTEM SERVICE TESTS SFORCEX (SUCC 16-SEP-1984 00:53:49 VAX/VMS Macro V04-00 TM SETUP. TM CLEANUP S-SEP-1984 04:31:22 LUETPSY.SRCJSATSSS42.MAR;1
SATSSS42
V04-000
                                                                                                                                                                             (1)
                                                                           SSETPRN S TEST MOD NAME D SS CHECK NORMAL
                                                           204
205
206
207
208
210
                                                                                                                        SET PROCESS NAME
                                                  0084
                                                                                                                        CHECK STATUS CODE RETURNED FROM SETPRN
                                                                           SWAKE S PIDADR=CREATING_PID
SS_CHECK NORMAL
                                                  00B2
                                                                                                                        GET MY PID
                                                  0001
                                                                                                                        CHECK FOR NORMAL RETURN
                                                  OOEF
                                                                           SHIBER S
                                                                                                                        UNDO ABOVE WAKE
                                                                           SS CHECK NORMAL
                                                  00F6
                                                                                                                        CHECK FOR NORMAL RETURN
                                                 0124
0124
0124
                                                                           $CRELOG_S TBLFLG=#LOG$C_SYSTEM, - ; GET MY PID INTO LOG NAME TABLE LOGNAM_PID, - ; ... FOR USE BY CREATED PROCESS
                                                           211
                                                                                        EQLNAM=EQUIV_PID
                                                 013B
                                 2E 50
                                                                                                                      : IF SUCCESSFUL, CONTINUE
: USE SS_CHECK TO TERMINATE MODULE
                                           E8
                                                                           BLBS
                                                                                     RO.10$
                                                  013E
                                                                           SS_CHECK NORMAL
                                                           215 10$:
                                                 016C
                                                 016C
                                                           217 : THE FOLLOWING CODE ESTABLISHES UIC'S IN THE CONDITION 3 TABLE
                                                 0160
                                                           218;
                                                 0160
                                                           Ž19
                                                 0160
                                                                                                                      ; KERNEL MODE TO ACCESS PCB
; GET CURRENT PCB ADDRESS
                                                                                      TO,20$, KRNL
                                                                           MODE
                                                                                     a#SCHSGL_CURPCB_R9
PCBSL_UIC(R9)_R9
FROM.20$
                         000000019F
                  59
                                                 018f
                                                                           MOVL
                        59
                             00BC C9
                                            DO
                                                 0196
                                                                                                                      : PICK UP UIC FROM PCB
                                                                           MOVL
                                                           223 · 224 ; 225 ; 226 ; 227
                                                 019B
                                                                           MODE
                                                                                                                      : ... AND GET BACK TO USER MODE
                                                 0190
                                                 0190
                                                                   R9 NOW CONTAINS 'MY' UIC
                                                 0190
                                                 0190
                                                                                     #1,R10 ; GET COND3 TABLE INDEX NUMBER INTO A REG #4X10000,R9,COND3_E[R10] ; PUT DIFF GROUP UIC INTO 2ND TABLE ELT
                                                                           MOVZBL #1,R10
                         00010000 8F
                                            C1
                                                 019F
                                                                           ADDL3
                      00000249'EF4A
                                                  01A6
                                                 01AC
                                                           22230123345678
222222233345678
                                                                                                                        POINT TO 3RD COND3 TABLE ELEMENT
                                            D6
                                                                           INCL
                                                                                     R9, COND3_E[R10]
                00000249'EF4A
                                     59
                                            D0
                                                 01AE
                                                                           MOVL
                                                                                                                        PUT MY UIC INTO TABLE
                                                                                                                        POINT TO 4TH COND3 TABLE ELEMENT PUT DIFF MEMBER UIC INTO THE TABLE
                                                 01B6
                                            D6
                                                                           INCL
                                                                           ADDL3 #1,R9,COND3 E[R10] ; PUT DIFF MEMBER UIC INTO THE TABLE SCREMBX S CHAN=MBXCHAN, LOGNAM=CREATED PRN, - ; GET MAILBOX FOR PROCESS
         00000249'EF4A
                              59
                                     01
                                                 0188
                                            C1
                                                 0101
                                                                                        MAXMSG=#120, PROMSK=#0, BUFQUO=#240
                                                 0101
                                                 01E6
                                                                           SS CHECK NORMAL
                                                                                                                        CHECK NORMAL COMPLETION
                                                 0214
                                                                           SGETCHN_S CHAN=MBXCHAN, -
                                                                                                                      : GET CHAN INFO (UNIT NUMBER)
                                                 0214
                                                                                        PRIBUF=MBXCHANINFO
                                                 022E
                                                                           SS_CHECK NORMAL
                                                                                                                       : CHECK NORMAL COMPLETION
                                                                           MOVZWL MBXCHANINFO+8+DIB$W_UNIT, MBXUNIT; SAVE MAILBOX UNIT NUMBER
RSB; RETURN TO MAIN ROUTINE
      00000088'EF
                         00000020'EF
                                                           239
                                            05
                                                 0267
                                                 0268
                                                           240 TM_CLEANUP::
                                                                           $DELMBX_S MBXCHAN ; DELETE TERMINATION MAILBOX $DELLOG_S TBLFLG=#LOG$C_SYSTEM, - ; DELETE LOG NAME ACQUIRED ABOVE
                                                 0268
                                                           241
                                                           242 243 244
                                                 0276
                                                 0276
                                                                                        LOGNAM=LOGNAM_PID
                                                 0287
                                  FD76'
                                                                           BSBW
                                                                                      MOD_MSG_PRINT
                                                                                                                        PRINT TEST MODULE END MSG
                                            05
                                                 028A
                                                                                                                      : RETURN TO MAIN ROUTINE
                                                                           RSB
```

SAT

Tab

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SATS SYSTEM SERVICE TESTS SFORCEX (SUCC 16-SEP-1984 00:53:49 VAX/VMS Macro V04-00 CONDITION SUBROUTINES - SETUP AND CLEANU 5-SEP-1984 04:31:22 [UETPSY.SRC]SATSSS42.MAR;1
                                                                                                                                                                       Page
                                                                                                                                                                                   (1)
         028B
028B
028B
                                            .SBTTL CONDITION SUBROUTINES - SETUP AND CLEANUP
                      24490123555567
224555555567
                             : FUNCTIONAL DESCRIPTION:
                                CONDX AND CONDX CLEANUP ARE SUBROUTINES WHICH ARE EXECUTED BEFORE AND AFTER THE VERIFY SOBROUTINE, RESPECTIVELY, WHENEVER A NEW CONDITION X VALUE IS SELECTED (SEE FUNCTIONAL DESCRIPTION OF SUCCOMMON ROUTINE IN SUCCOMMON.MAR). ANY SETUP FUNCTION PARTICULAR TO THE CONDITION X TABLE IS INCLUDED IN THE CONDX SUBROUTINE AND CLEANED UP, IF NECESSARY, IN THE CONDX CLEANUP SUBROUTINE. THIS INCLUDES, ESPECIALLY, CODE TO DETECT CONFLICTS AMONG CURRENT ENTRIES IN TWO OR MORE CONDITION TABLES. IF A CONFLICT IS DETECTED, A NON-ZERO VALUE IS STORED INTO CONFLICT, WHICH CAUSES THE CALLING ROUTINE (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.
         028B
         028B
         028B
         028B
         028B
         028B
         0288
         0285
         028B
                                 (SUCCOMMON) TO SKIP THE CURRENT ENTRY IN THE CONDITION X TABLE.
         028B
                      261
                      262
263
         028B
                                 CALLING SEQUENCE:
         028B
         028B
                      264
                                            BSBW CONDX BSBW CONDX_CLEANUP
         028B
                      265
                                                WHERE X = 1.2.3.4.5
         028B
                      266
                      267
268
         028B
                                 INPUT PARAMETERS:
         028B
         028B
                      269
                                            CONFLICT = 0
                      270
271
272
273
         028B
         0288
                                 IMPLICIT INPUTS:
         028B
         028B
                                            R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
         028B
                                               FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
         028B
         028B
                                 OUTPUT PARAMETERS:
         028B
                      278
         028B
                                            CONFLICT SET TO NON-ZERO IF COND TABLE CONFLICT DETECTED.
         028B
         028B
028B
                                 IMPLICIT OUTPUTS:
                      281
         028B
                      282
                                            R2,3,4,5,6 PRESERVED
         028B
                      283
         028B
                      284
                                 COMPLETION CODES:
         028B
                      285
         028B
                      286
                                            NONE
         028B
                      287
         028B
                      288
                                 SIDE EFFECTS:
         028B
                      289
         028B
                      290
                                            NONE
         028B
                      291
```

293 028B 028B 028B 028B 028B 05

0280

028B

296 COND1:: 298 COND1_CLEANUP::

: RETURN TO MAIN ROUTINE : RETURN TO MAIN ROUTINE

299 05 0280 300 COND2:: 302 303 028D 00000110'8F 028D 0000016B'EF42 12 0299 029B

CMPL #ZEROPID.COND1_E[R2] COND2X BNEQU COND2_E[R3] TSTL

; PID SPECIFIED AS 0 ?? NO -- NO CONFLICT YES -- IS THERE A PROCESS NAME ??

000001AD'EF43

RSB

```
SATS SYSTEM SERVICE TESTS $FORCEX (SUCC 16-SEP-1984 00:53:49 VAX/VMS Macro V04-00 CONDITION SUBROUTINES - SETUP AND CLEANU 5-SEP-1984 04:31:22 [UETPSY.SRC]SATSSS42.MAR;1
SATSSS42
                                                                                                                                           Page
V04-000
                                                                                                                                                  (1)
                                                                                                   ; YES -- NO CONFLICT
                                                  304
305
306
                                     12
                     00000000 °EF
                                                               BNEQU
                                                                        COND2X
     0000000'EF
                                          02A4
                                                               MOVB
                                                                        ONES.CONFLICT
                                                                                                   : NO -- INDICATE CONFLICT BECAUSE THIS TYPE
                                                                                                   : ... OF FORCEX WOULD EXIT CREATING IMAGE
                                          02AF
                                                      COND2x:
                                     05
                                                                                                   : RETURN TO MAIN ROUTINE
                                                      COND2_CLEANUP::
                                     05
                                                  310
                                                               RSB
                                                                                                   : RETURN TO MAIN ROUTINE
                                                      COND3::
   0000016B'EF42
                     00000118'8F
                                     D1
                                                               CMPL
                                                                        #CREATED_PID,COND1_E[R2] ; NON-ZERO PID SPECIFIED ?
                                                                                                   ; YES -- NO CONFLICT
                                     13
05
13
                                                               BEQLU
                                                                        COND3X
                                                                        CONDZ E[R3]
                   000001AD'EF43
                                          02BF
                                                               TSTL
                                                                                                    IS PROCESS NAME SPECIFIED ?
                               10
                                                  315
                                                               BEQL
                                                                                                   : NO -- NO CONFLICT
                                                 316 :
317 :
                                          83Š0
                                          0208
                                                        NOTE -- AT THIS POINT, PROCESS WILL BE REFERENCED BY PROCESS NAME.
                                                  318
                                                                                                   ; DOES CONDITION 3 SPECIFY DIFFERENT GROUP ?
                          01
                                                  319
                                                               CMPL
                                     D1
                                                                        R4.#1
                                     12
                                                                                                   : NO -- NO CONFLICT
                               0B
                                          02CB
                                                  320
                                                               BNEQ
                                                                        COND3X
     00000000 EF
                     00000001EF
                                          02CD
                                                                        ONES, CONFLICT
                                                                                                   : YES -- PROCESS NAME FOR DIFF GROUP IS CONF
                                                               MOVB
                                                      COND3x:
                                          02D8
                                     05
                                          0208
                                                               RSB
                                                                                                   : RETURN TO MAIN ROUTINE
                                                  324 COND3_CLEANUP::
                                          0209
                                     05
                                          0209
                                                                                                   : RETURN TO MAIN ROUTINE
                                                               RSB
                                                  326 COND4::
                                          02DA
                                     05
                                          02DA
                                                               RSB
                                                                                                   : RETURN TO MAIN ROUTINE
                                                  328 COND4_CLEANUP::
                                          OCDB.
                                     05
                                         02DB
                                                               RSB
                                                                                                   : RETURN TO MAIN ROUTINE
                                                  330 COND5::
                                          05pc
                                     05
                                                               RSB
                                         0200
                                                  331
                                                                                                   : RETURN TO MAIN ROUTINE
                                                     COND5_CLEANUP::
                                          02DD
                                     05
                                         02DD
                                                                                                   ; RETURN TO MAIN ROUTINE
                                                               RSB
```

```
SATS SYSTEM SERVICE TESTS SFORCEX (SUCC 16-SEP-1984 00:53:49 VAX/VMS Macro V04-00 FORM CONDS 5-SEP-1984 04:31:22 [UETPSY.SRC]SATSSS42.MAR;1
SATSSS42
V04-000
                                                                                                                                                      10
                                                                                                                                                                     VO4
                                                                                                                                                        (1)
                                           02DE
02DE
02DE
02DE
02DE
                                                                  .SBTTL FORM_CONDS
                                                          FUNCTIONAL DESCRIPTION:
                                                                           FORM_CONDS FORMATS AND PRINTS INFORMATION ABOUT
                                                            THE CURRENT ELEMENT IN EACH OF THE CONDITION TABLES.
                                                                                                                                                                     53
                                            ÖŽDĒ
                                                           CALLING SEQUENCE:
                                            02DE
                                            02DE
                                                                 BSBW FORM CONDS
                                            02DE
                                            02DE
                                                           INPUT PARAMETERS:
                                                                 NONE
                                                           IMPLICIT INPUTS:
                                                                  R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
                                                                    FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.
                                                                 FOR X = 1,2,3,4,5
                                                                           CONDX_T - TITLE TEXT FOR CONDX TABLE
                                                                           CONDX TAB - ELEMENT TEXT FOR CONDX TABLE CONDX C - CONTEXT OF THE CONDX TABLE
                                                                           CONDX = - DATA ELEMENTS OF THE CONDX TABLE
                                                           OUTPUT PARAMETERS:
                                                    361
                                                                                                                                                                     21
6E
70
2E
                                                                  NONE
                                            02DE
                                            02DE
                                                           IMPLICIT OUTPUTS:
                                           OZDE
                                            02DE
                                                                 NONE
                                                                                                                                                                     74
                                           02DE
                                                    367
                                                                                                                                                                     40
                                           02DE
                                                    368
                                                           COMPLETION CODES:
                                                                                                                                                                     41
                                           02DE
                                                    369
                                           02DE
                                                    370
                                                                 NONE
                                           02DE
                                                    372
373
                                           02DE
                                                           SIDE EFFECTS:
                                                                                                                                                                     20
64
                                            02DE
                                            02DE
                                                                 NONE
                                                                                                                                                                     58
                                            SDE
                                           CSDE
                                                    376
                                                    377
                                            02DE
                                                                                                                                                                     65
                                            02DE
                                           OSDE
                                                                                                                                                                     60
                                           02DE
                                                        FORM_CONDS::
                                                   381
                                                                  $FAO_S MSG1_INP_CTL,FAO_LEN,FAO_DESC,TESTNUM
                                           OSDE
                                                                                                         FORMAT CONDITIONS HEADER MSG
                                           02FD
                                                    382
                                                    383
                              FE 00'
                                           02FD
                                                                  BSBW
                                                                           OUTPUT MSG
                                                                                                          ... AND PRINT IT
                                                                                                                                                                     77
                           14
                                       91
                                           0300
                                                    384
                                                                  CMPB
                                                                           #COND1 C , #NULL
                                                                                                         IS CONDITION 1 NULL ?
                                 00
                                                    385
                                 03
                                       12
                                            0303
                                                                  BNEQU
                                                                                                         NO -- CONTINUE
                                                                           10$
                               OOBF
                                       31
                                            0305
                                                    386
                                                                           FORM_CONDSX
                                                                                                       : YES -- SUBROUTINE IS FINISHED
                                                                  BRW
                                                    387
388
                                                        105:
                                            0308
                                                                           COND1_T,MSG_A
COND1_TABER2],MSG_B
#CONDT_C,MSG_CTXT_
                                            7308
                                                                                                          SAVE ADDRESS OF CONDITION 1 TITLE FOR FAO
      00000001EF
                      00000120'EF
                                                                  MOVAL
                                       DE
                                                    389
                                                                                                         SAVE ADDR OF COND 1 CURR TEXT ELT FOR FAO
                                            0313
   0000000'EF
                    0000012D'EF42
                                       00
                                                                  MOVL
                                       90
                                                    390
                                                                                                         SAVE CONDITION 1 CONTEXT FOR FAO
                0000000U'EF
                                            031F
                                                                  MOVB
                                                    391
                                                                  MOV_VAL CONDI_E, CONDI_EFR2], MSG_DATA1 ; GIVE COND 1 DATA VALUE TO FAO
                                            0326
```

20

: RETURN TO CALLER

FORM_CONDSX:

RSB

FC39'

30

05

0307

SAT

V04

```
03C8 428 .SBTTL VERIFY
03C8 429 :++
03C8 430 : FUNCTIONAL DESCRIPTION:
03C8 431 :
03C8 432 : VERIFY IS
03C8 433 : TABLE VALUES (AS DETERM
03C8 434 : COND TABLES 1,2,3,4,5,
```

03C8 03C8

03C8 03C8

u3C8

03C8 03C8

03C8 03C8 VERIFY IS CALLED ONCE FOR EACH COMBINATION OF CONDITION TABLE VALUES (AS DETERMINED BY THE INDEX REGISTERS R2,3,4,5,6 FOR COND TABLES 1,2,3,4,5, RESPECTIVELY). VERIFY ESTABLISHES THE CONDITIONS SPECIFIED BY THE COND TABLES AND ISSUES THE SUBJECT SYSTEM SERVICE (\$FORCEX). THEN, THE SUCCESSFUL OPERATION OF THE SERVICE IS VERIFIED BY EXAMINING THE STATUS CODE RETURNED, THE VALUES FOR RETURN ARGUMENTS AND THE FUNCTIONALITY PERFORMED. THE EXAMINATIONS TAKE THE FORM OF COMPARISONS AGAINST EXPECTED VALUES. ANY FAILING COMPARISON CAUSES AN LRR EXIT MACRO TO BE EXECUTED (EITHER DIRECTLY, OR INDIRECTLY, HROUGH THE SS CHECK MACRO); ERR EXIT SETS EFLAG TO NON-ZERO, PRINTS ERROR MESSAGES AND CAUSES AN IMMEDIATE RSB TO CALLER. WHEN ERR EXIT IS EXECUTED, FURTHER CALLS TO VERIFY ARE SUPPRESSED, AND, AFTER EXECUTING CLEANUP SUBROUTINES, THE IMAGE EXITS.

CALLING SEQUENCE:

BSBW VERIFY

INPUT PARAMETERS:

NONE

IMPLICIT INPUTS:

R2,3,4,5,6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES

FOR COND TABLES 1,2,3,4,5, RESPECTIVELY.

FOR X = 1,2,3,4,5:

CONDX E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX

TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE

ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM

FOR CONDX E.

OUTPUT PARAMETERS:

NONE

IMPLICIT OUTPUTS:

VERIFY HAS NO OUTPUT. SINCE ITS PURPOSE IS TO TEST FOR ERRORS, IT MERELY RETURNS TO CALLER NORMALLY AFTER THE TESTS, PROVIDING ALL WERE SUCCESSFUL; IF AN ERROR IS DISCOVERED, RETURN IS VIA AN ERR_EXIT OR SS_CHECK MACRO, BOTH OF WHICH DOCUMENT DETECTED ERRORS.

COMPLETION CODES:

EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.

SIDE EFFECTS:

SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT (VTA RSB) IF ERROR ENCOUNTERED.

```
486
                                                       489 VERIFY::
                                        95
13
                     00000000'EF
                                                       490
                                                                       TSTB
                                                                                 CFLAG
                                                                                                                  ; SHOULD CONDITIONS BE PRINTED ?
                                                       491
                                 03
                                                                       BEQL
                                                                                 5$
                                                                                                                  ; NO -- CONTINUE
                                             03DD
                                        30
                              FFOB
                                                                                 FORM_CONDS
                                                                                                                  : YES -- FMT & PRINT ALL CONDS FOR THIS T.C.
                                                                       BSBW
                                                       493 55:
                                              03D3
                     00000110'EF
                                             0303
                                                       494
                                                                                  ZEROPID
                                                                                                                    CLEAR ZERO PID
                                                                      $CREPRC_S PIDADR=CREATED_PID, PRCNAM=CREATED_PRN, -
UIC=COND3_E[R4], IMAGE=IMAGNAM, -
MBXUNT=MBXUNIT;, QUOTA=QUOTALIST
                                             0309
                                                       495
                                             03D9
                                                       496
                                             0309
                                                       497
                                             0410
                                                       498
                                                                                                                    CREATE A PROCESS TO BE FORCEX'D
                                                                                                                    ... AND MAKE SURE IT CREATED OK WAKE SELF IN 1 MIN IF CREATED PROC DOESN'T CHECK FOR NORMAL RETURN
                                             0410
                                                                      SS_CHECK NORMAL
$SCHOWK_S DAYTIM=ONE_MIN
SS_CHECK NORMAL
                                                       499
                                             043E
                                                       500
                                             0451
                                                       501
                                             047F
                                                                                                                    SLEEP UNTIL CREATED PROC IS FULLY CREATED
                                                                       SHIBER S
                                                                      SS_CHECK NORMAL
SCANWAK_S
SS_CHECK NORMAL
                                             0486
                                                       503
                                                                                                                    EXPECT NORMAL RETURN
                                                       504
                                             04B4
                                                                                                                    GET RID OF SCHEDULED WAKE-UP
                                             04BF
                                                       505
                                                                                                                    CHECK FOR NORMAL STATUS RETURN
                                             04ED
                                                       506
                                                               SCHEDULED WAKE-UP WILL ONLY BE EFFECTED IF CREATED PROCESS DOES NOT GET FULLY CREATED. IN THIS CASE, THE SUBJECT SYSTEM SERVICE
                                             04ED
                                                       507
                                                       508
                                             04ED
                                             04ED
                                                       509
                                                               BELOW WILL FAIL WITH AN APPROPRIATE ERROR CONDITION.
                                             04ED
                                                       510
                                             04ED
                                                       511
                                                               THE FOLLOWING CODE LOOKS FOR THE SPECIAL CASE OF NO PID SPECIFIED AND NO PROCESS NAME SPECIFIED IN CONDITION TABLES. IF THIS CASE
                                             04ED
                                             04ED
                                                       513
                                                              IS PRESENT, FORCEX IS NOT ISSUED HERE, BUT, INSTEAD, A SWAKE IS ISSUED FOR THE CREATED PROCESS, WHICH, IN TURN, ISSUES A SFORCEX TO FORCE ITS OWN EXIT. FOR ALL GTHER CASES, THE CREATED PROCESS IS FORCED TO EXIT BY A SFORCEX ISSUED HERE IN THIS PROCESS.
                                                       514
                                             04ED
                                             04ED
                                                       515
                                                       516
                                             04ED
                                                       517 ;
                                             04ED
                                             04ED
                                                       518 ;
                                             04ED
                                                       519
                  0000016B'EF42
                                        D5
                                                                                  COND1_EER23
                                                                                                                    IS PIDADR SPECIFIED ??
                                                                       TSTL
                                             04F4
                                                                                                                    YES -- NO SPECIAL CASE -- CONTINUE
                                                                       BNEQU
                                                                                 10$
                                        DŠ
                                             04F6
                                                                                  COND2_E[R3]
                                                                                                                    NO -- HOW ABOUT PROCESS NAME ??
                  000001AD'EF43
                                                                       TSTL
                                                                                 10$
                                        12
                                             04FD
                                                                                                                    IT EXISTS -- A NORMAL CASE
                                 48
                                                                       BNEQU
                                                                                                                    NO PIDADR OR PIDADR SPECIFIED
                                             04FF
                                                                       $WAKE_S PIDADR=CREATED_PID
                                                       524
525
                                             050E
                                                                                                                    WAKE CREATED PROCESS TO FORCE ITSELF
                                             050E
                                                                       SS CHECK NORMAL
                                                                                                                    CHECK FOR NORMAL STATUS RETURN
                                                                                                                    ... SET UP EXPECTED STATUS CODE
  0000011C'EF
                     00000118'EF
                                             053C
                                                       526
                                                                       MOVL
                                                                                 CREATED_PID, EXP_STATUS
                                        D0
                               010E
                                        31
                                             0547
                                                                                                                    ... AND GO WAIT FOR ITS MAIL
                                                                       BRW
                                             054A
                                                       528 10$:
                                             054A
                                                       530
                                             054A
                                                              SET UP TO ISSUE SUBJECT SFORCEX IN THIS PROCESS
                                             054A
                                                       531 ;
  0000011C'EF
                                                                                 CREATING PID.EXP_STATUS : SET UP EXPECTED STATUS CODE COND1_E[R2], DEST_PIDADR : GET PID ADDRESS OUT OF TABLE
                                             054A
                                                       532
                     00000114'EF
                                                                       MOVL
                                                       533
0000010C'EF
                   0000016B'EF42
                                             0555
                                        D0
                                                                       MOVL
                                                                                  COND2_E[R3],R9
            59
                   000001AD 'EF43
                                        00
                                             0561
                                                                       MOVL
                                                                                                                  ; PRCNAM ADDR INTO REG FOR INDIRECT REF'RNCE
                                                       535
                                             0569
                                                       536
537
538
539
                                                               ***** SYSTEM SERVICE CALL WHICH IS THE SUBJECT OF THIS TEST CASE *****
                                             0569
                                             0569
                                             0569
                                                                       $FORCEX_S PIDADR=aDEST_PIDADR, PRCNAM=(R9), -
                                             0569
                                                                                    CODE=EXP STATUS
               0000000018F
                                             057E
                                                       540
                                                                       CMPL
                                                                                  RO,#SS$_NORMAL
                                                                                                                  : CODE RECEIVED = CODE EXPECTED ?
                                  50
                                        D1
                                        13
                                             0585
                                                       541
                                                                       BEQLU
                                                                                                                  : YES -- CONTINUE
                                  61
```

485 ;--

```
SATS S'STEM SERVICE TESTS $FORCEX (SUCC 16-SEP-1984 00:53:49 VAX/VMS Macro V04-00 VERIFY 5-SEP-1984 04:31:22 [UETPSY.SRC]SATSSS42.MAR;1
SATSSS42
                                                                                                                                     Page 14
V04-000
                                                                                                                                            (1)
     0000000'EF 0000000'8F
                                                                                               ; NO -- LOAD UP EXPECTED AND .
                                                                     #SS$_NORMAL,EXPV
                                                                                                 ... RECEIVED VALUES, THEN EXIT
                                   ĎŎ
                                        0592
               00000000'EF 50
                                                            MOVL
                                                                     RO.RECV
                                                            ERR_EXIT LONG, INCORRECT STATUS CODE RETURNED FROM FORCEX>
                                        0599
                                        05E8
                                                545 158:
                                               546
547
                    0000010C'EF
                                   D5
13
                                                                                               ; PID RETURNED BY FORCEX ?
                                                             TSTL
                                                                     DEST_PIDADR
                                                                     20$
                                        05EE
                                                             BEQL
                                                                                                : NO -- KEEP GOING
                                                             CMPL
                                                                     CREATED_PID. adEST_PIDADR ; YES -- IS IT THE CORRECT ONE ?
     0000010C'FF
                    00000118'EF
                                   D1
                                        05F0
                              ŠΒ
                                   13
                                                549
                                                                                               ; YES -- CONTINUE
                                        05FB
                                                             BEQL
                                                                     20$
     0000000°EF
                    00000118'EF
                                   DÕ
                                        05FD
                                                550
                                                                     CREATED_PID,EXPV
                                                                                               ; NO -- LOAD UP EXPECTED AND
                                                             MOVL
                                                                     adest_PIDADR_RECV
                                   ĎŎ
     00000001EF
                    0000010C'FF
                                        0608
                                                                                                 ... RECEIVED VALUES, THEN EXIT
                                                             MOVL
                                                552
553 20$:
                                                            ERR_EXIT_LONG, < INCORRECT_PID_RETURNED_BY_FORCEX>
                                        0613
                                        0658
                                               554
555
                                        0658
                                        0658
                                                   : CREATED PROCESS HAS BEEN FORCEX'D (BY THIS PROCESS OR BY ITSELF)
                                               556 :
557
                                        0658
                                        0658
                                                            $QIOW_S CHAN=MBXCHAN, FUNC=#IO$_READVBLK, -
                                        0658
                                                                     P1=MBXBUFF+8, P2=MBXBUFF
                                        0681
                                                                                                : WAIT FOR CREATED PROCESS TO SEND MAIL
                                        0681
                                                                                                 CHECK FOR NORMAL STATUS CODE
                                                             SS_CHECK NORMAL
     0000011C'EF
                    00000098'EF
                                        06AF
                                                561
                                                             CMPL
                                                                     MBXBUFF+12, EXP_STATUS
                                                                                                 CREATED PROC RETURN EXPECTED EXIT STATUS ?
                                   13
                                                562
563
                              69
                                        06BA
                                                             BEQLU
                                                                     VERIFYX
                                                                                                 YES -- ALL IS OK
                    0000011C'EF
                                   D0
                                                                                                 NO -- LOAD UP EXPECTED AND
     0000000'EF
                                        06BC
                                                             MOVL
                                                                     EXP_STATUS, EXPV
                                                                                                  ... RECEIVED VALUES, THEN EXIT
     00000000'EF
                    00000098'EF
                                   DO
                                                                     MBXBUFF+12, RECV
                                        0607
                                                564
                                                             MOVL
                                        06D2
0725
                                                             ERR_EXIT LONG, < INCORRECT EXIT STATUS CODE RETURNED IN MAILBOX>
                                                565
                                                566 VERIFYX:
                                   05
                                        0725
                                                567
                                                            RSB
                                                                                               : RETURN TO CALLER
```

.END

```
SATS SYSTEM SERVICE TESTS $FORCEX (SUCC 16-SEP-1984 00:53:49 VAX/VMS Macro V04-00 VFY_CLEANUP 5-SEP-1984 04:31:22 [UETPSY.SRC]SATSSS42.MAR;1
                                                                                                                                                       (1)
                                      .SBTTL VFY_CLEANUP
                         ; FUNCTIONAL DESCRIPTION:
                           VFY CLEANUP EXECUTES SYSTEM SERVICES TO UNDO THE EFFECT OF THOSE ISSUED IN THE VERIFY SUBROUTINE. VFY CLEANUP MUST ASSUME THAT VERIFY MAY NOT HAVE EXECUTED IN ITS ENTIRETY (IF AN ERROR IS FOUND). ALSO, VFY CLEANUP MAY ISSUE SS CHECK OR ERR EXIT ONLY AFTER PERFORMING ALL OF ITS CLEANUP OPERATIONS; THIS IS REQUIRED IN THE EVENT THAT VFY CLEANUP IS CALLED DURING ERROR PROCESSING, WHEN PERFORMING THE REQUIRED CLEANUP IS MORE IMPORTANT THAN DOSCIED Y DISCOVERING A SECOND ERROR
                   578
579
                            POSSIBLY DISCOVERING A SECOND ERROR.
                   582
583
                            CALLING SEQUENCE:
                   584
                                     BSBW VFY_CLEANUP
                   585
                   586
587
                            INPUT PARAMETERS:
                   588
                                     NONE
                   589
                   590
                            IMPLICIT INPUTS:
                   591
                                     P2.3.4.5.6 CONTAIN CURRENT CONDITION TABLE INDEX VALUES
                                     FOR COND TABLES 1,2,3,4,5, RESPECTIVELY. FOR X = 1,2,3,4,5:
                                                  CONDX E - ADDRESS OF TABLE OF DATA VALUES FOR CONDX TABLE. IF THE CONTEXT OF TABLE X IS A SYSTEM SERVICE
        0726
                                                     ARGUMENT, THE ARGUMENT NAME MAY BE USED AS A SYNONYM
        0726
                   598
                                                     FOR CONDX_E.
        0726
                   599
        0726
                           OUTPUT PARAMETERS:
                  600
        0726
                  601
        0726
                  602
                                     NONE
        0726
                  603
        0726
                            IMPLICIT OUTPUTS:
                  604
        0726
                  605
        0726
                  606
                                     NONE
        0726
                  607
        0726
                  608
                            COMPLETION CODES:
        0726
                  609
        0726
                  610
                                     EFLAG SET TO NON-ZERO IF ERROR ENCOUNTERED.
        0726
                  611
        0726
                  612
                            SIDE EFFECTS:
        0726
        0726
                  614
                                     SS_CHECK AND ERR_EXIT MACROS CAUSE PREMATURE EXIT
        0726
                  615
                                     (VIA RSB) IF ERROR ENCOUNTERED.
        0726
                  616
        0726
                  617
        0726
                  618
        0726
                  619
        0726
                  620
                  621
622
623
        0726
                        VFY_CLEANUP::
                                                                                       ; DELETE CREATED PROCESS (IF STILL HERE)
                                     $DELPRC_S PRCNAM=CREATED_PRN
       0735
  05
                                     RSB
                                                                                       : RETURN TO CALLER
```

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V04

```
SAT
```

SATSSS42	SATS SYSTEM SERVICE TESTS	\$FORCEX (SUCC 16-SEP-1984	00:53:49 VAX/VMS Macro V04-00	Page 16
Symbol table		5-SEP-1984	04:31:22 [UETPSY.SRC]SATSSS42.MAR;	(1)
SSS SSCHARS SSCHARS2 SSCHARS3 SSSCHARS4 SSSCHARS5 SSSCOND A SSSCOND A SSSSTRINGS SSSSTRINGS2 SSTI SST2 BYTE CFLAG CHMRTN CHM CONT COND1 C COND1 C COND1 C COND1 H COND1 T COND2 C COND2 C COND2 C COND2 C COND2 C COND2 C COND2 C COND3 C COND3 C COND3 C COND3 C COND3 C COND3 C COND3 C COND3 C COND3 C COND3 C COND3 C COND3 C COND3 C COND3 C COND3 C COND3 C COND3 C COND3 C COND4 C COND5 C COND5 C COND5 C COND5 C COND5 C COND5 C COND5 C COND5 C COND5 C COND5 C COND5 C COND5 C COND5 C COND5 T C COND5 T C COND5 T C COND5 T C COND5 T C C COND5 T C C C C C C C C C C C C	= 000005DC R 04 = 00000002E = 000000019 = 000000001 = 000000001 = 00000001 = 00000001 = 00000001 = 00000001 = 00000001 = 00000001 = 00000001 = 00000001 = 00000001 = 00000001 = 00000001 = 00000001 = 00000001 = 00000001 = 00000001 = 00000000 000002BR RG 04 0000012D R 03 0000012D R 03 0000012D R 03 0000012D R 03 0000012D R 03 0000012D R 03 0000012D R 03 0000012D R 03 0000012D R 03 0000012D R 03 0000012D R 03 0000012D R 03 0000012D R 03 0000012D R 03 0000012D R 03 0000012D R 04 0000002BB RG 04 0000001AD R 03 000001AD R 03 000001BD R 03 000001BD R 03 000001BD R 03 000001BD R 03 000001BD R 03 000001BD R 03 000001BD R 03 000001BD R 03 000001BD R 03 000001BD R 03 000001BD R 03 000001BD R 03 000001BD R 03 000001BD R 03 000001BD R 03 000002DD RG 04 0000002DD RG 04	DESC DEST PIDADR DIBSK_LENGTH DIBSK_LENGTH DEFLAG EQUIV_PID EXPV STATUS FAO_LEN FORM_CONDSX IMAGNAM IOS READVBLK LOGSC SYSTEM LOGNA PID LONG MBXBUFF MBXCHAN INFO MBXBUFF MBXCHAN INFO MBXCHAN INFO MBXCHAN INFO MBXCHAN INFO MBXCHAN INFO MBXCHAN INFO MBXCHAN INFO MBXCHAN INFO MBXCHAN INFO MBXCHAN INFO MBXCHAN INFO MBXCHAN INFO MBXCHAN INFO MBXCHAN INFO MBXCHAN INFO MBXCHAN INFO MSG T INP CTL MS	= 00000010 G 03	

```
SAT
VO4
```

```
SATS SYSTEM SERVICE TESTS SFORCEX (SUCC 16-SEP-1984 00:53:49 VAX/VMS Macro V04-00
SATSSS42
                                                                                                                                                         17
                                                                                         5-SEP-1984 04:31:22 [UETPSY.SRC]SATSSS42.MAR:1
Symbol table
                                                                                                                                                          (1)
SYSSHIBER
                                                         000000
SYSSQIOU
                                                   GX
SYS$SCHDWK
SYS$SETPRN
SYS$SETPRV
SYSSWAKE
TESTNUM
                                       ******
                                                         000000000
TEST_MOD_NAME
TEST_MOD_NAME_D
TEST_MOD_SUCC
TMD_ADDR
                                       00000000
                                                  RG
                                       00000009 R
                                       00000268 RG
TH CLEANUP
TM SETUP
                                       00000000 RG
                                       000003C8 RG
VERIFY
                                     00000725 R
00000726 RG
= 00000002 G
                                                         04
VERIFYX
VFY_CLEANUP
WORD
WRITE MSG2
                                       *****
ZEROPID
                                       00000110 R
                                                         ! Psect synopsis
PSECT name
                                      Allocation
                                                              PSECT No.
                                                                           Attributes
                                      00000000
   ABS
                                                              00
                                                                     0.)
                                                                           NOPIC
                                                                                            CON
                                                                                                          LCL NOSHR NOEXE NORD
                                                                                                                                    NOWRT NOVEC BYTE
                                                                                                   ABS
                                                        Ŏ.)
SABS$
                                      0000000
                                                              01
                                                                           NOPIC
                                                                                            CON
                                                                                                   ABS
                                                                                                          LCL NOSHR
                                                                                                                               RD
                                                                                                                                       WRT NOVEC BYTE
                                                                     1.)
                                                                                                                       EXE
                                                                                    USR
                                                              02 (
03 (
                                                                     2.)
3.)
                                                                           NOPIC
                                                                                            CON
                                                                                                   REL
                                                                                                          LCL NOSHR NOEXE
                                      000000A6
                                                                                                                               RD
                                                                                                                                    NOWRT NOVEC LONG
RODATA
                                                      166.)
                                                                                    USR
                                                     603.)
                                                                                                          LCL NOSHR NOEXE
                                      0000025B
                                                                           NOPIC
                                                                                            CON
                                                                                                   REL
                                                                                                                               RD
                                                                                                                                      WRT NOVEC LONG
RWDATA
                                                                                    USR
                                      00000736
                                                    1846.)
                                                                                                                        EXE
                                                                                                                               RD
SATSSS42
                                                                           NOPIC
                                                                                    USR
                                                                                            CON
                                                                                                          LCL NOSHR
                                                                                                                                       WRT NOVEC BYTE
                                                      ! Performance indicators
Phase
                                               CPU Time
                                                                 Elapsed Time
                              Page faults
                                       29
                                                00:00:00.07
                                                                 00:00:00.37
Initialization
                                      113
                                                00:00:00.61
                                                                 00:00:02.18
Command processing
                                      316
                                                00:00:09.72
                                                                  00:00:20.20
Pass 1
                                                00:00:00.79
                                                                 00:00:00.81
Symbol table sort
                                        0
                                                00:00:02.34
                                                                 00:00:03.22
Pass 2
                                      136
Symbol table output
                                                00:00:00.10
                                       16
                                                                  00:00:00.03
                                                00:00:00.03
Psect synopsis output
                                                00:00:00.00
                                                                  00:00:00.00
Cross-reference output
                                                00:00:13.66
                                                                  00:00:26.93
Assembler run totals
The working set limit was 1350 pages.
51508 bytes (101 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 510 non-local and 48 local symbols.
```

624 source lines were read in Pass 1, producing 26 object records in Pass 2. 51 pages of virtual memory were used to define 41 macros.

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(1)

SATSSS42
VAX-11 Macro Run Statistics

SATS SYSTEM SERVICE TESTS SFORCEX (SUCC 16-SEP-1984 00:53:49 VAX/VMS Macro V04-00 5-SEP-1984 04:31:22 [UETPSY.SRC]SATSSS42.MAR;1

! Macro library statistics !

Macro library name

Macros defined

_\$255\$DUA28:[SHRLIB]UETP.MLB;1
_\$255\$DUA28:[SYS.OBJ]LIB.MLB;1
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries)

27 38

934 GETS were required to define 38 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSS42/OBJ=OBJ\$:SATSSS42 MSRC\$:SATSSS42/UPDATE=(ENH\$:SATSS\$42)+EXECML\$/LIB+SHRLIB\$:UETP/LIB

0423 AH-BT13A-SE

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